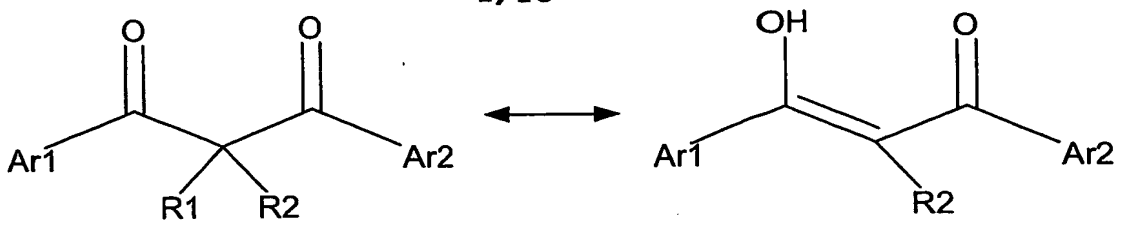
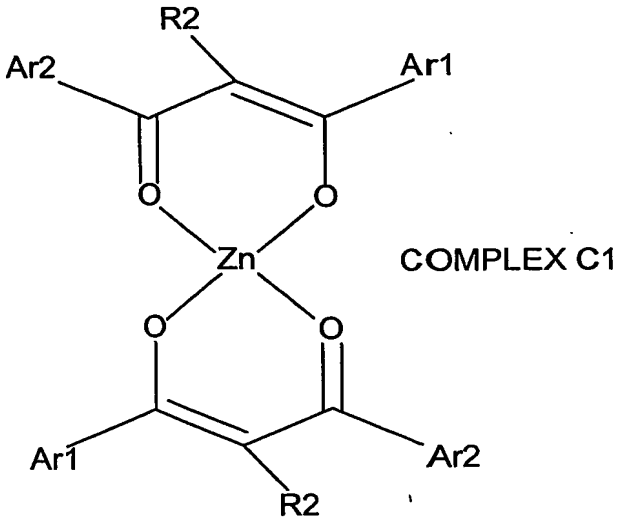


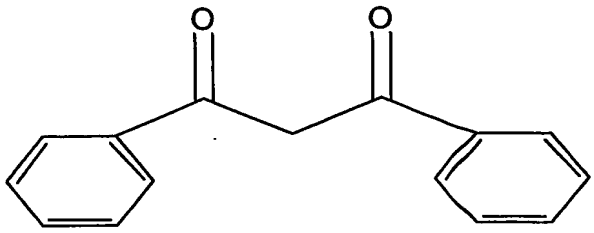
STRUCTURE A1

FIG. 1



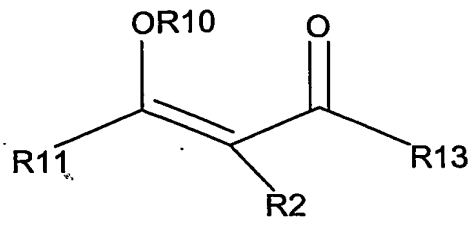
COMPLEX C1

FIG. 2



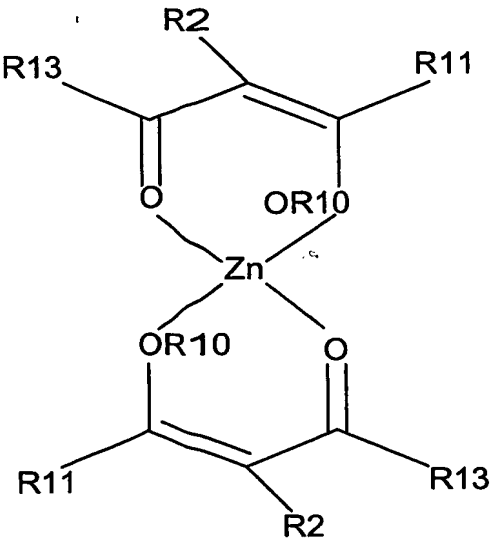
STRUCTURE A2

FIG. 3

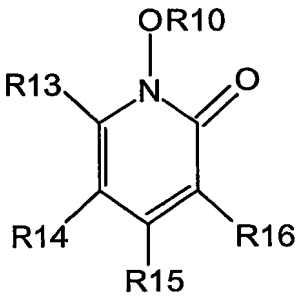


STRUCTURE A3

FIG. 4

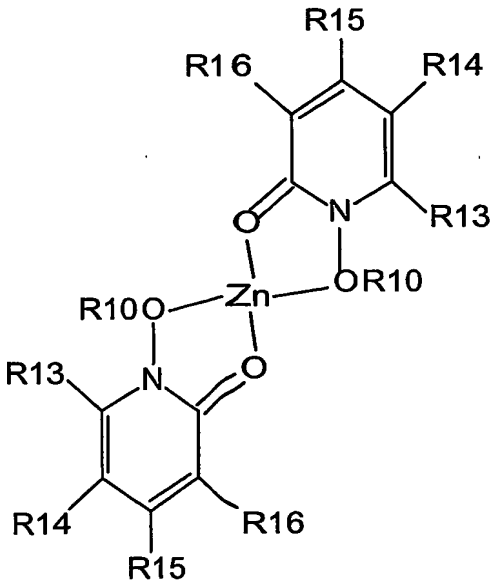


COMPLEX C2

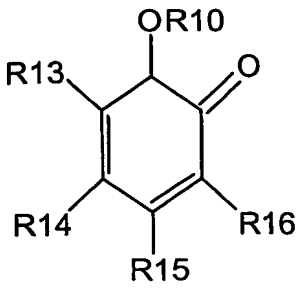


STRUCTURE A4

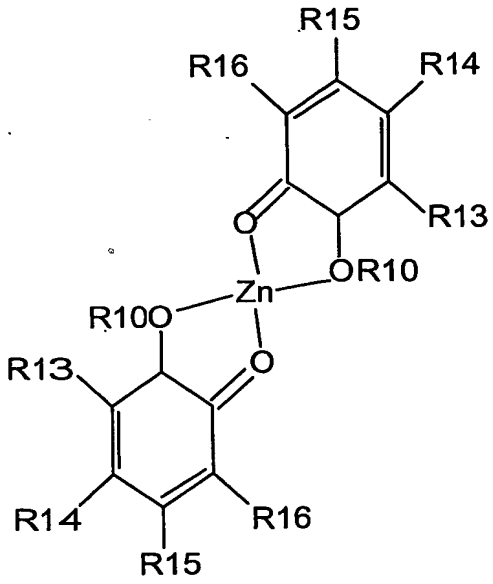
FIG. 5



COMPLEX C3

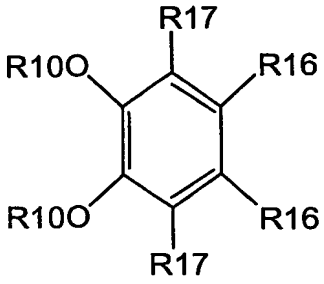


STRUCTURE A5

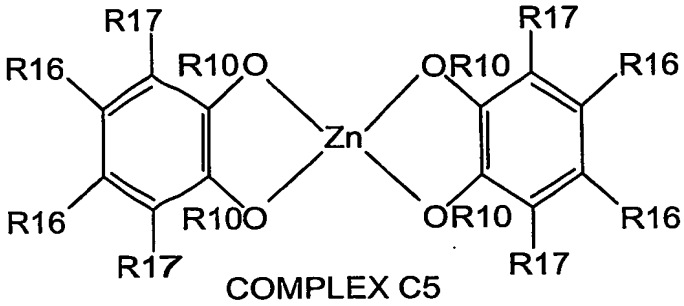


COMPLEX C4

FIG. 6

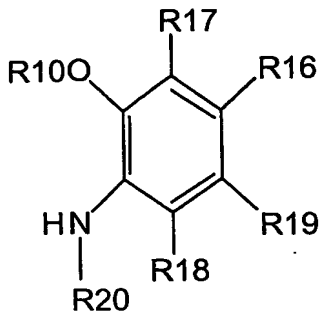


STRUCTURE A6

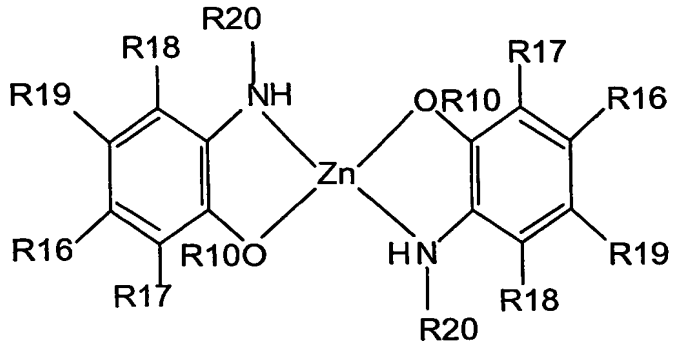


COMPLEX C5

FIG. 7

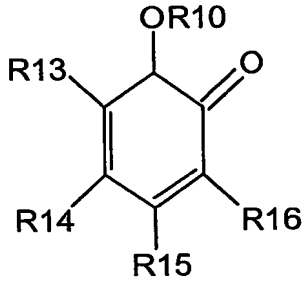


STRUCTURE A7



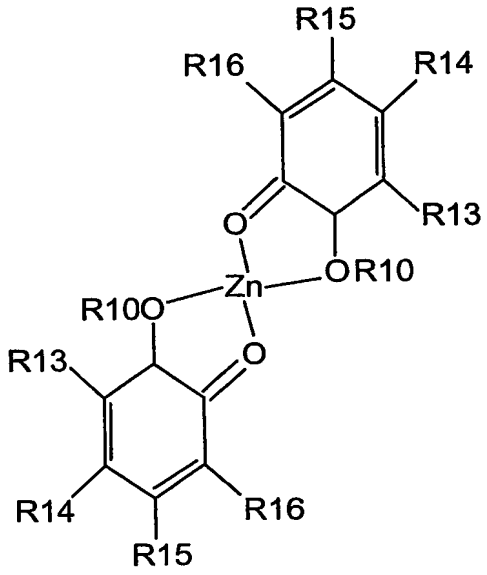
COMPLEX C6

FIG. 8

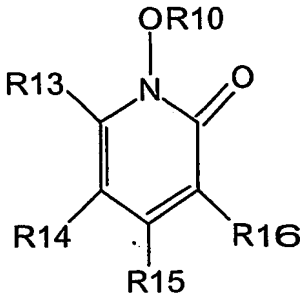


STRUCTURE A8

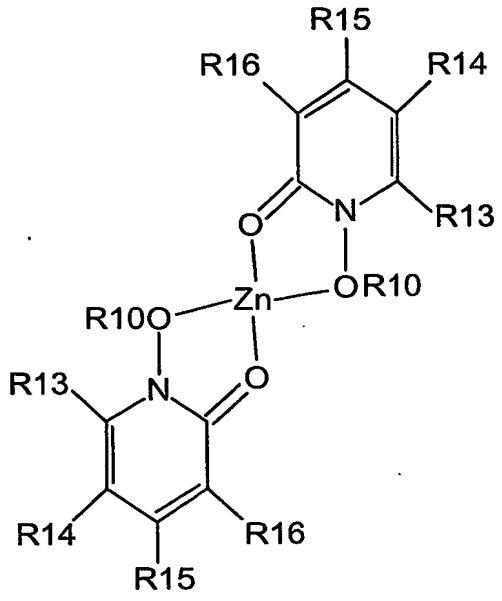
FIG. 9



COMPLEX C7

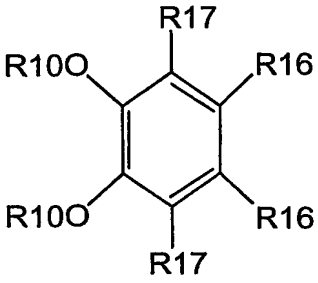


STRUCTURE A9

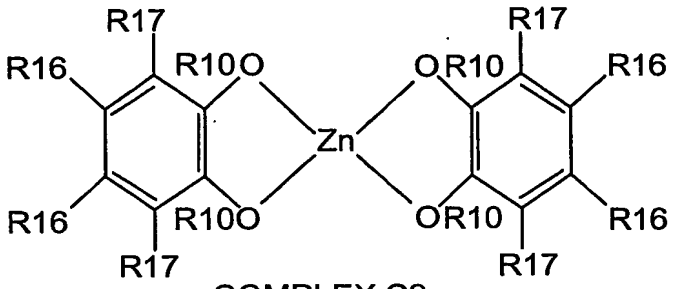


COMPLEX C8

FIG. 10

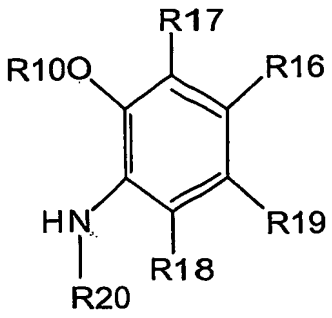


STRUCTURE A10

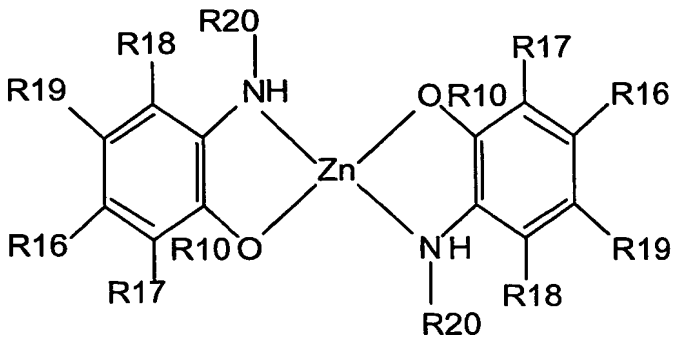


COMPLEX C9

FIG. 11



STRUCTURE A11



COMPLEX C10

FIG. 12

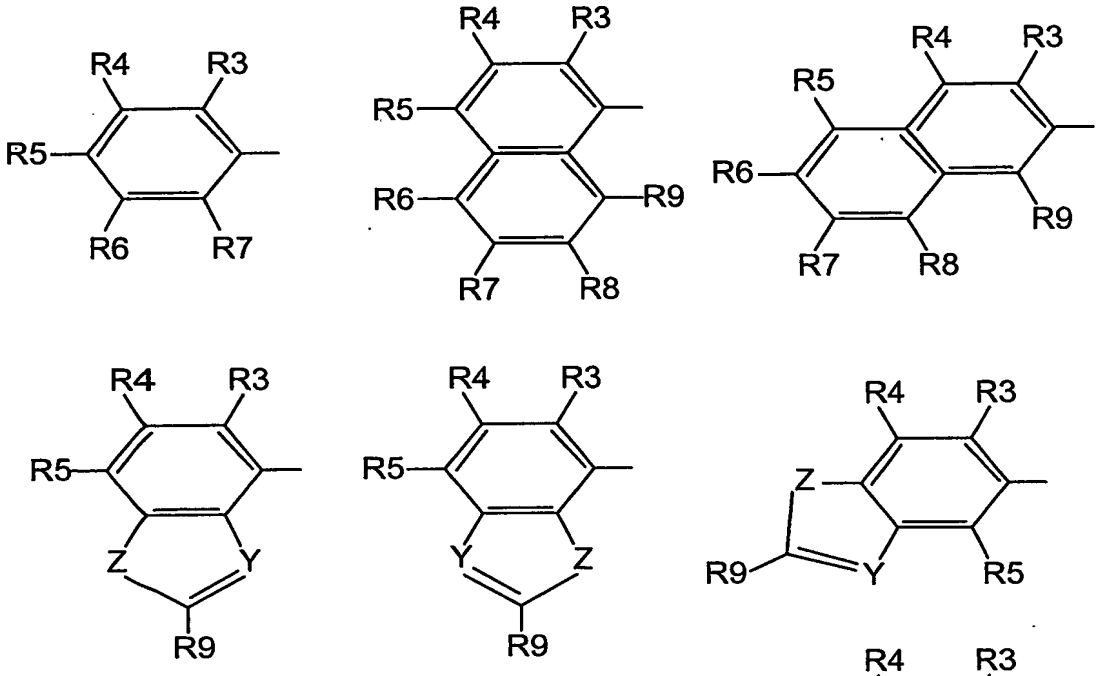


FIG. 13

Ar1 and Ar2:

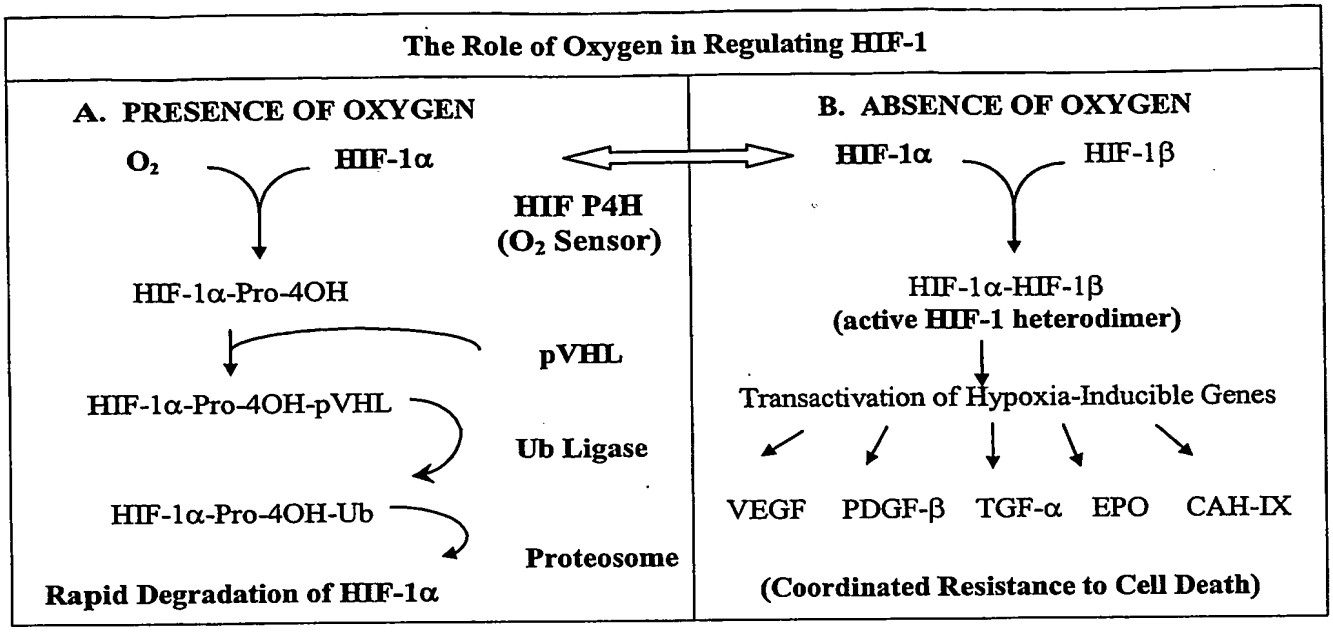


FIG. 14

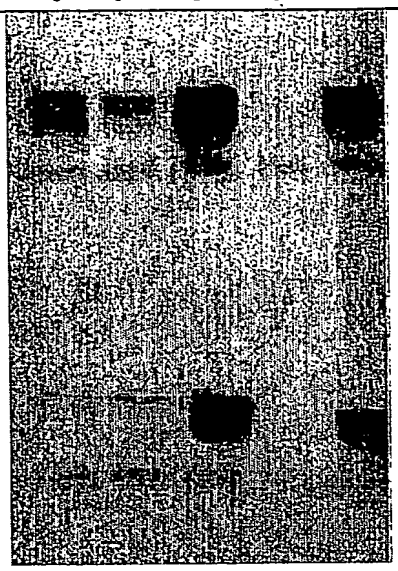
HEK 293 Cells

Lanes	1	2	3	4	5	6	7	8	Normoxia
DBM (μM)	0	100	100	100	100	0	0	0	
Zn^{2+} (μM)	0	0	25	50	100	25	50	100	
DBM:Zn^{2+}	--	--	4:1	2:1	1:1	--	--	--	

FIG. 15

A. HT144 Cells
&
B. HEK 293 Cells

Lanes	1	2	3	4	5	Hypoxia
DBM (μM)	0	0	100	100	100	
Zn^{2+} (μM)	0	100	0	100	0	
Fe^{3+} (μM)	0	0	0	0	25	



A. **HIF-1α**

B. **HIF-1α**

FIG. 16

HEK 293 Cells

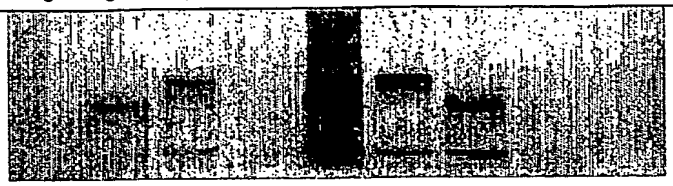
Lanes	1	2	3	4	Normoxia
DBM (μM)	0	100	0	100	
Zn^{2+} (μM)	0	0	100	100	

HIF-1α
β-Actin

FIG. 17

HEK 293 Cells

Lanes	1	2	3	4	5	6	7	8	9	Normoxia
DBM (μM)	0	100	0	100	0	0	100	100	100	
Zn^{2+} (μM)	0	0	50	50	0	50	0	50	50	
MG-132 (μM)	0	0	0	0	10	10	10	0	10	

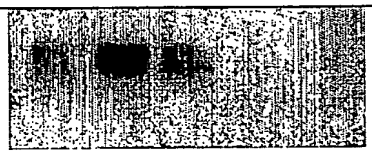


HIF-1α

FIG. 18

RCC-4 Cells

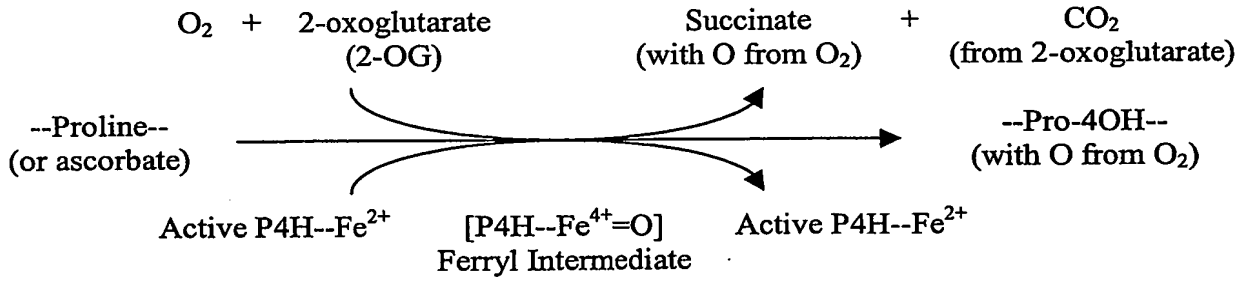
Lanes	1	2	3	4	5	Normoxia
DBM (μM)	0	0	0	100	100	
Zn^{2+} (μM)	0	0	50	50	50	
MG-132 (μM)	0	10	0	0	10	



HIF-1α

FIG. 19

A.



B.

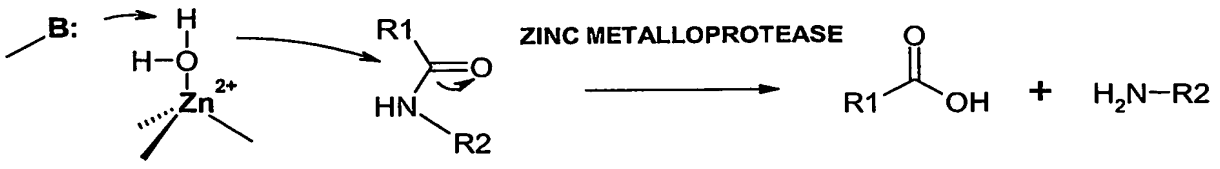


FIG. 20

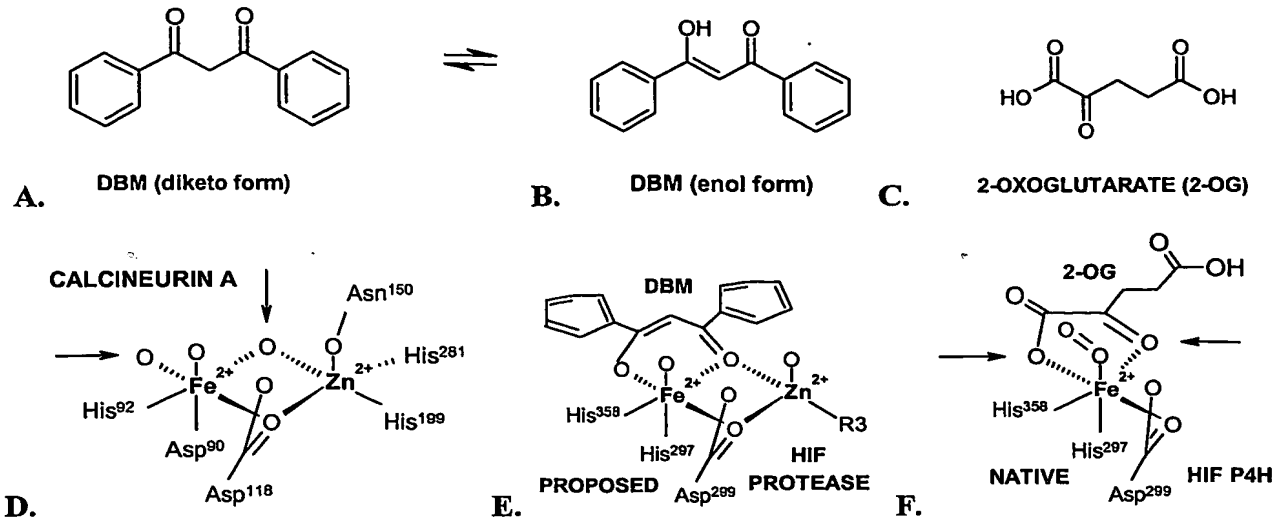

A.
DBM (diketo form)
B.
DBM (enol form)
C.
2-OXOGLUTARATE (2-OG)
CALCINEURIN A
Asn150
His281
His92
Asp90
Asp118
D.
DBM
His358
His297
Asp299
R3
HIF
PROPOSED
PROTEASE
E.
2-OG
His358
His297
Asp299
NATIVE
HIF P4H
F.

FIG. 21